

AZ2270

30 AMP MINIATURE POWER RELAY

FEATURES

- Quick-connect leads for contacts
- 1 Form A, B and C contacts available
- AC and DC coils available
- High dielectric strength version available
- Epoxy sealed versions available
- UL Class F (155°C) standard
- UL, CUR file E44211
- VDE 40027037 (DC coil only)

CONTACTS

Arrangement	SPST (1 Form A, or B) SPDT (1 Form C)
Ratings	Resistive load: Max. switched power: 840 W or 8310 VA Max. switched current: 30 A (Form A) 15 A (Form B) Max. switched voltage: 277 VAC, 28 VDC
UL, CUR	1 Form A 30 A at 277 VAC, General Use [1][2] 2 Hp at 250 VAC [1][2] 1 HP at 125 VAC [1][2] 30 A at 28 VDC [1] 20/60 (FLA/LRA) at 277 VAC 30k cycles [1] 1 Form B 15 A at 277 VAC, General Use [1] 10 A at 28 VDC [1] 0.5 HP at 250 VAC [1] 0.25 HP at 125 VAC [1] 10/33 (FLA/LRA) at 277 VAC 30k cycles [1] 1 Form C 30/20 A (N.O./N.C.) at 277 VAC, General Use [1][2] 20/10 A (N.O./N.C.) at 28 VDC [1] 2/0.5 HP (N.O./N.C.) at 250 VAC [1][2] 1/0.25 HP (N.O./N.C.) at 125 VAC [1][2] 20/60 (FLA/LRA) at 277 VAC 30k cycles N.O. [1] 10/33 (FLA/LRA) at 277 VAC 30k cycles N.C. [1]
VDE	Contact factory for ratings
Material	Silver cadmium oxide [1], silver tin oxide [2]
Resistance	< 50 milliohms initially (24 V, 1 A voltage drop method)

COIL

Power	
At Pickup Voltage (typical)	DC: 500 mW AC: 1.4 VA
Max. Continuous Dissipation	DC: 1.7 W at 20°C AC: 2.7 VA at 20°C
Max. Temperature	155°C (311°F)



GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at 30 A 120 VAC Res.
Operate Time	15 msec max. at nominal coil voltage
Release Time	10 msec max. at nominal coil voltage (without suppression)
Dielectric Strength (at sea level for 1 min.)	1500 Vrms contact to contact 2500 Vrms contact to coil 4000 Vrms contact to coil ("T" version)
Insulation Resistance	1000 megohms min. at 20°C, 500 VDC 50% RH
Dropout	DC: > 10% of nominal coil voltage AC: > 20% of nominal coil voltage
Ambient Temperature Operating Storage	-55°C (-67°F) to 85°C (185°F) -55°C (-67°F) to 155°C (311°F)
Vibration	0.062" DA at 10–55 Hz
Shock	10 g
Enclosure	P.B.T. polyester
Terminals	Tinned copper alloy, P.C., Quick Connects Note: Allow suitable slack on leads when wiring, and do not subject the terminals to excessive force.
Max. Solder Temp.	270°C (518°F)
Max. Solder Time	5 seconds
Max. Solvent Temp.	80°C (176°F)
Max. Immersion Time	30 seconds
Weight	36 grams

NOTES

1. All values at 20°C (68°F).
2. Relay may pull in with less than "Must Operate" value.
3. Specifications subject to change without notice.



AMERICAN ZETTLER, INC.

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7/23/09

AZ2270

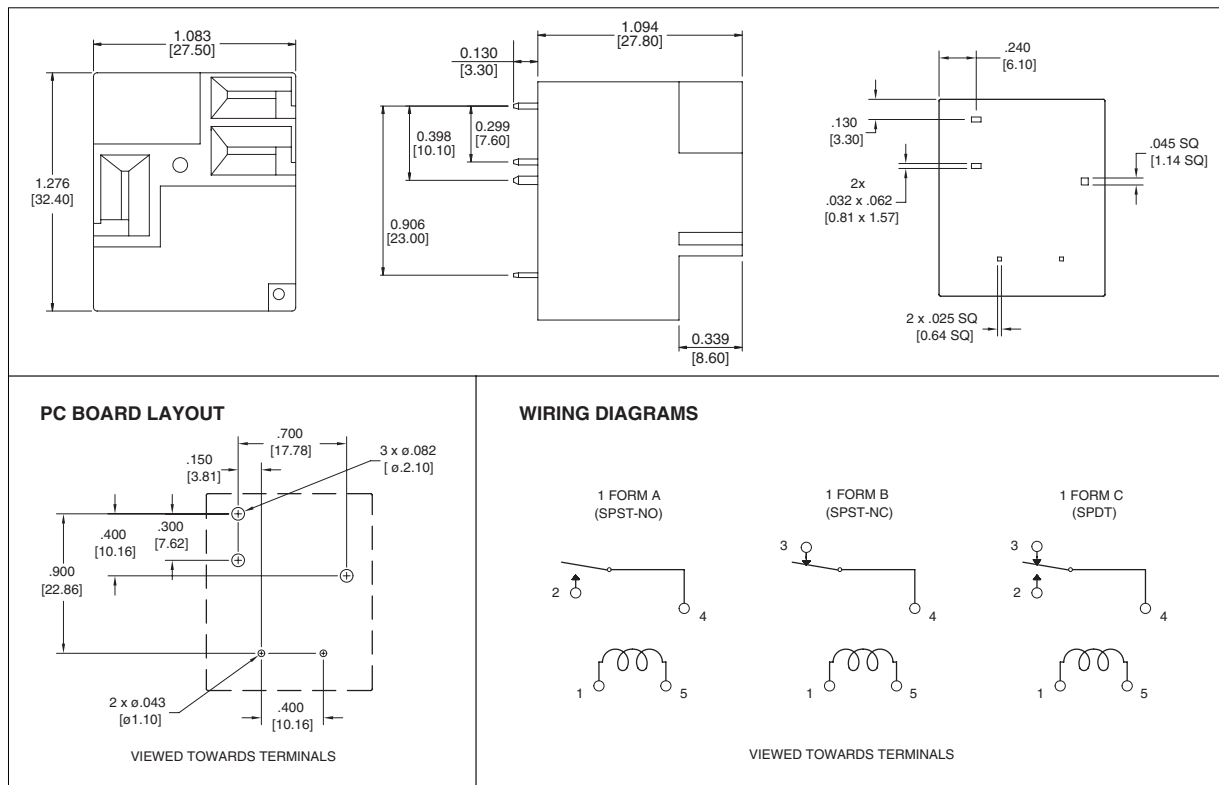
RELAY ORDERING DATA

COIL SPECIFICATIONS – DC Coil					ORDER NUMBER*
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Nominal Current mA $\pm 10\%$	Coil Resistance $\pm 10\%$	
5	3.75	6.4	185	27	AZ2270-1A-5DF
6	4.50	7.8	150	40	AZ2270-1A-6DF
9	6.75	12.2	93	97	AZ2270-1A-9DF
12	9.0	15.4	77	155	AZ2270-1A-12DF
15	11.3	19.8	59	256	AZ2270-1A-15DF
18	13.5	24.1	47	380	AZ2270-1A-18DF
24	18.0	32.0	36	660	AZ2270-1A-24DF
48	36.0	62.6	19	2,560	AZ2270-1A-48DF
70	52.0	93.0	27	5,500	AZ2270-1A-70DF
110	82.5	146.0	20	13,450	AZ2270-1A-110DF

COIL SPECIFICATIONS – AC Coil 50/60 Hz					ORDER NUMBER*
Nominal Coil VAC	Must Operate VAC	Max. Continuous VAC	Nominal Coil Power VA	Coil Resistance $\pm 10\%$	
12	10.2	13.8	2.3	25	AZ2270-1A-12AF
24	20.4	27.6	2.1	100	AZ2270-1A-24AF
120	102.0	138.0	2.3	2,500	AZ2270-1A-120AF
208	166.0	239.0	2.2	11,000	AZ2270-1A-208AF
220/240	187.0	276.0	2.2/2.6	13,490	AZ2270-1A-240AF
277	220.0	318.0	2.2	15,000	AZ2270-1A-277AF

*Substitute "-1B" or "-1C" in place of "-1A" for 1 Form B or 1 Form C respectively. For silver tin oxide contacts substitute "-1AE" or "-1CE" in place of "-1A" or "-1C." Add "T" to "-1A", "-1AE", "-1B", "-1C" or "-1CE" for extended life contacts. Substitute "DEF" or "AEF" in place of "DF" or "AF" for epoxy sealed version. For 4000 Vrms dielectric strength change "F" to "TF."

MECHANICAL DATA



Dimensions in inches with metric equivalents in parentheses. Tolerance: $\pm .010$ "



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